

FLORIDA



Governor Rick Scott Board Chairman Enterprise Florida



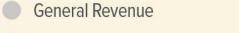
Gray Swoope

Gray Swoope
Secretary of Commerce
President & CEO
Enterprise Florida

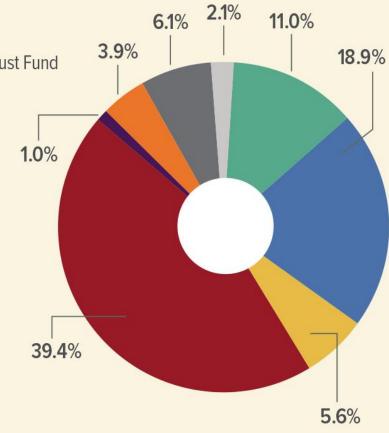
The State of Florida's economic development leadership is committed to partnering with manufacturing industry to create a low cost and stable environment for job creation and investment



Source of Funds 2013-14



- FL Intl Trade & Promotion Trust Fund
- State SEED Trust
- Professional Sports
 Dev. Trust Fund
- State Small Business Credit Initiative (SSBCI)
- Federal Grant Assistance
- Corporate Contributions
- Program Revenues



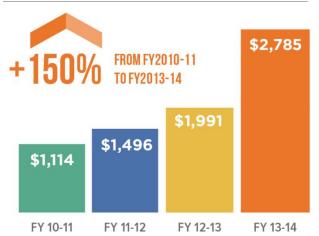


Business Development Performance

Competitive Projects Average Wage (4 Year Comparison)



Capital Investment (\$millions)

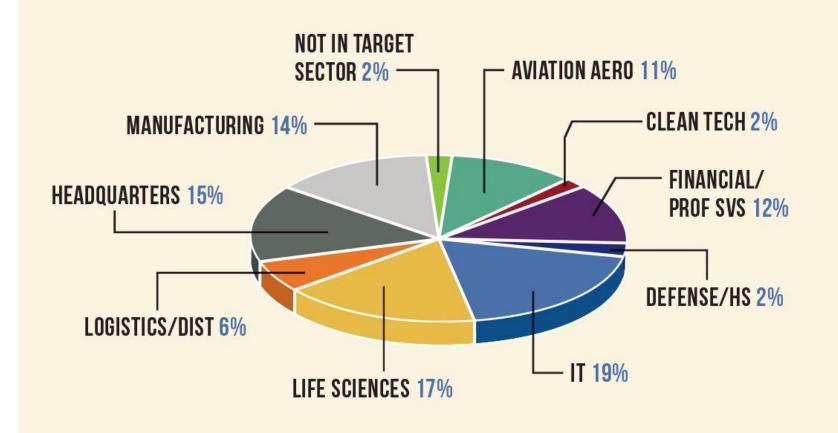


FY 2010-14 New Jobs + Retained Jobs = Total Jobs

FISCAL YEAR	NEW JOBS	RETAINED JOBS	TOTAL JOBS
FY 10-11	14,437	5,272	19,709
FY 11-12	14,684	10,868	25,552
FY 12-13	20,188	5,005	25,193
FY 13-14	23,864	12,343	36,207

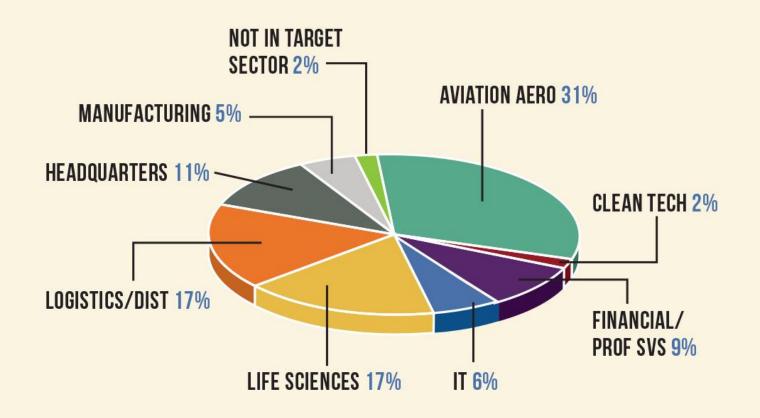


Established Projects by Industry (FY 2013-14)





Percentage of Capital Investment by Industry (FY 2013-14)





Florida is a Manufacturing State!

Manufacturing Facts

manufacturing 17,859 firms

manufacturing 311,263 workers

> 5% of State **GDP**

\$52,372 **Average** wage

Manufacturing Advantages

Top 5 **State for Talent Pipeline**

3rd

Lowest Private Sector Unionization Rate in the U.S.

State for Bachelor's Top 5 Degree Holders, Technical Workfo **Technical Workforce**, and Science and **Engineering Workforce**



Education Supports Manufacturing

Educational Programs

- Degree programs supporting advanced manufacturing
- Community and State colleges offering advanced manufacturing programs
- Additional college credit certificates (CCC) offered through other manufacturing related degree programs

Training Resources

Florida Advanced Technological Education (FLATE)

Florida Manufacturing Extension Partnership (Florida MEP)

Employ Florida Banner Center for Advanced Manufacturing (BCAM)

FLORIDA





Automotive Industry In Florida

Auto Stats

361 Number of firms manufacturing motor vehicles and parts

5,838 Employees in sector

\$43,732 Average wage (24th in the U.S.)

520,000+ Vehicles handled at JAXPORT

Auto Rankings

#4 State for Motor Vehicle Body & Trailer Manufacturing

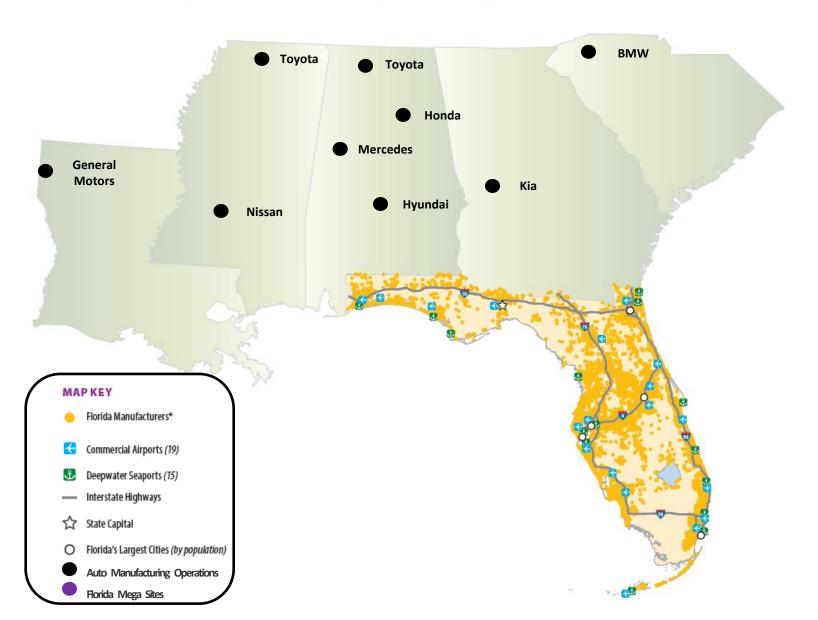
#5 State for Motor Vehicle Manufacturing

#6 State for Vehicle Exports

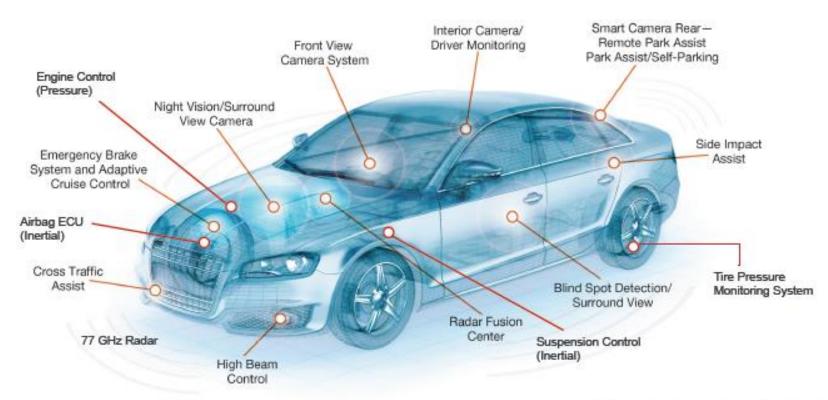
#9 State for Motor Vehicle Parts Manufacturing



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Sensors found in modern cars



We ran out of room! Not shown are:

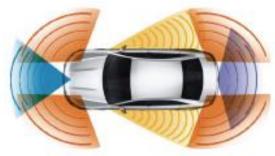
- electric parking brake (inertial)
- Vehicle Stability (Inertial)
- · Inertial and Pressure Side Crash Satellite
- A host of traditional automotive sensors



Advanced Driver Assistance System Market Trends







COMFORT WHILE DRIVING

Keeping the Car on the Road

- · Camera and radar
- Cognition algorithms to extract features/classify objects
- No display necessary
- Functional safety applied to longitudinal motion

SAFE DRIVING

360° Surround

- Rear/Side camera, sat.
 Radar, Ultrasonic, Lidar
- 3D image techniques and data fusion
- · 2.5D and 3D with high quality
- Greater safety as lateral movements are controlled

SELF DRIVING

Managing Co-driving

- Large data-object handling
- 3D environmental modeling allowing self-navigation
- Ego motion
- Greatest safety—longitudinal and lateral motion prediction
- Integration of feature extraction





Transition from Passive to Active Safety

· Cars that don't crash

 Everything now needs to be sensed

- Fitness to drive
- Active steering
- Driver/Passenger condition
- Biggest challenge for self driving cars are non-self driving cars







The world as seen via high definition LiDAR







Interaction with Sensors and the Infrastructures

V2V interaction

- Latest traffic updates
- Upcoming hazard warnings
- Matching travel speed

V2I interaction

- Surface conditions
- Road/Lane closures and re-routes
- Driver/Passenger interests and conveniences

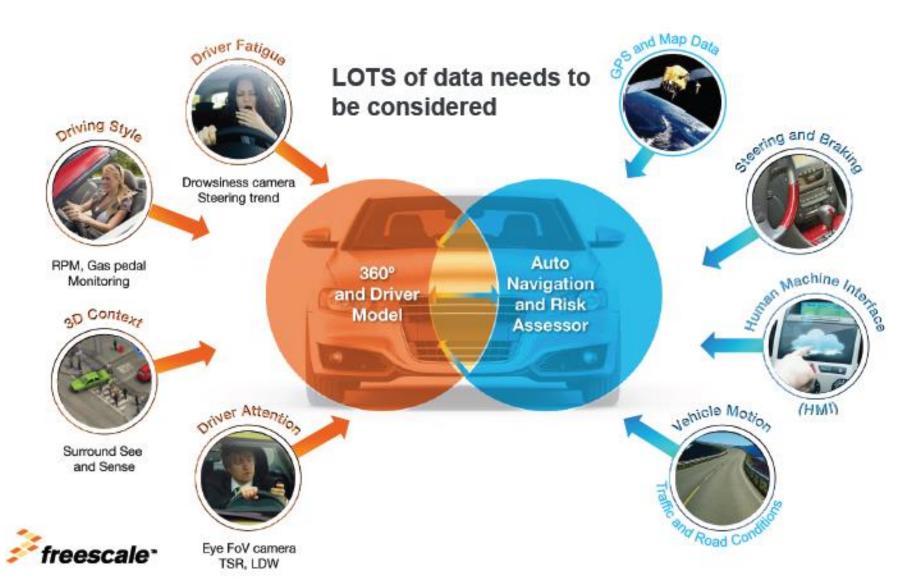
V2P interaction

- Monitor driver/passenger alertness from his wearables
- Seamlessly take over when driver is otherwise occupied





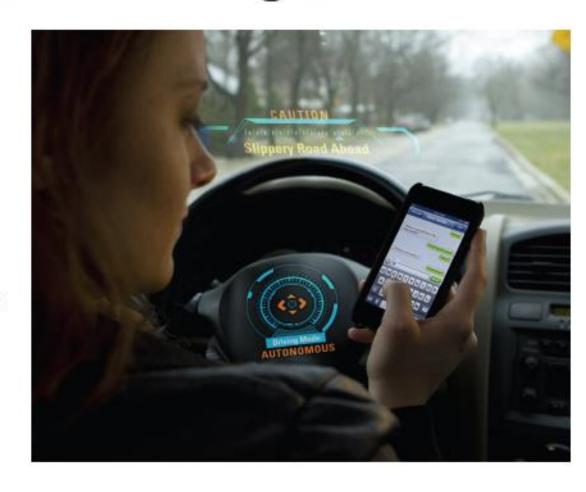






Autonomous Car Advantages

- Computers are not subject to fatigue
- ability to convoy or "draft" vehicles improves MPG
- · Higher speeds are possible
- safer
- · no drivers license required
- car sharing arrangements become more practical









International Consortium for Advanced Manufacturing Research



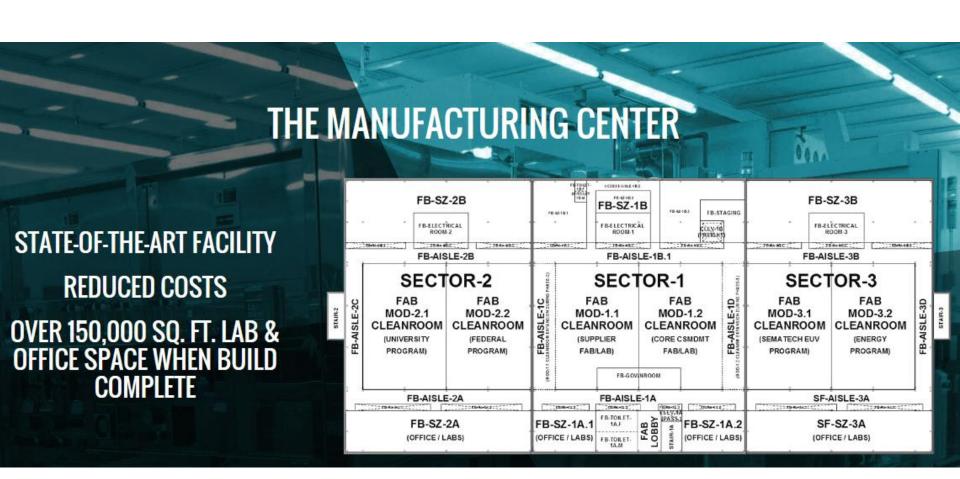


ADVACED MANUFACTURING The world's first industry-led consortium for manufacturing of smart sensors











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SEPTEMBER 3, 2014, 1:13 PM

Osceola high-tech facility speeds toward hiring, construction plan

UCF, Osceola County strike deal for \$61 alifications going out to contractors

million smart sensor center un 17, 2014, 7:47am EDT | UPDATED: Jun 17, 2014, 8:03am EDT

in f 8+ Matthew Richardson Orlando Business Journal

The University of Central Florida and Osceola County are at the beginning stages of a deal to build a \$61 million "smart sensors" research center that could create thousands of high-tech jobs.

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The news was announced Monday night, with Osceola County commissioners and UCF President John Hitt calling the partnership a "landmark effort to expand prosperity in Central Florida," reports the Orlando Sentinel.

Officials are comparing the partnership's impact to Lake Nona's Medical City, which Hitt described as the "the greatest economic



MUNIVERSITY OF CENTRAL FLORIDA

Community

Arts Business Colleges Community Health Opinions Science &

New Smart Sensors Research Partnership



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